

Appl. No. 09/750,862
Amdt. Dated November 23, 2005
Reply to Office Action of August 24, 2005

Amendments to the Claims:

Claim 1 (currently amended): A heat sink assembly comprising:

a frame;

a plurality of fins spacedly received in the frame, each of the fins defining a through hole and forming a connecting tab extending around a periphery of the through hole, a slot being defined in the connecting tab of each of the fins and receiving an end of the connecting tab of an adjacent one of the fins; and

a duct inserted through the through hole of each of the fins and in thermal contact with the connecting tabs.

Claim 2 (cancelled)

Claim 3 (cancelled)

Claim 4 (previously presented): The heat sink assembly as recited in claim 1, wherein a pair of locating portions extends from each of the fins for forming intervals between the fins.

Claim 5 (previously presented): The heat sink assembly as recited in claim 4, wherein a pair of abutting flanges respectively extends vertically toward each other from free ends of the locating portions of each of the fins, for abutting an adjacent one of the fins.

Claim 6 (previously presented): The heat sink assembly as recited in claim 1, wherein the duct is made of highly heat-conductive metal.

Claim 7 (original): The heat sink assembly as recited in claim 1, wherein the frame comprises a pair of generally L-shaped casings connected

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together.

Claim 8 (previously presented): The heat sink assembly as recited in claim 7, wherein at least one of the casings defines a pair of end tabs for abutting outmost fins.

Claim 9 (previously presented): The heat sink assembly as recited in claim 7, wherein a latching hole is defined in each of the casings for interferentially engaging with the duct.

Claim 10 (previously presented): The heat sink assembly as recited in claim 7, wherein a pair of reinforcing flanges extends inwardly from opposite lateral edges of a horizontal wall of each of the casings, and at least one screw hole is defined in each of the reinforcing flanges for securing the heat sink assembly to a fan.

Claim 11 (currently amended): A heat sink system comprising:

a fan;

a heat pipe adapted to be attached to a heat-generating electronic device, the heat pipe comprising a free end; and

a heat sink comprising a frame secured to the fan, a plurality of fins and a duct, the fins and the duct being accommodated in the frame, each of the fins defining a through hole for insertion of the duct therein, a tapered tab and at least one locating tab extending from each of the fins around a periphery of the through hole for abutting the duct, the frame defining a latching hole for interferentially engaging with an end of the duct, the duct interferentially receiving the free end of the heat pipe therein.

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Claim 12 (cancelled)

Claim 13 (previously presented): The heat sink system as recited in claim 11, wherein a pair of locating portions extends from each of the fins, for forming intervals between the fins.

Claim 14 (previously presented): The heat sink system as recited in claim 13, wherein a pair of abutting flanges respectively extends vertically toward each other from free ends of the locating portions of each of the fins, for abutting an adjacent one of the fins.

Claim 15 (previously presented): The heat sink system as recited in claim 11, wherein the duct is made of highly heat-conductive metal.

Claim 16 (previously presented): The heat sink system as recited in claim 11, wherein the frame comprises a pair of generally L-shaped casings connected together.

Claim 17 (previously presented): The heat sink system as recited in claim 16, wherein at least one of the casings defines a pair of end tabs for abutting outmost fins.

Claim 18 (previously presented): The heat sink system as recited in claim 16, wherein a latching hole is defined in each of the casings for interferentially engaging with the duct.

Claim 19 (previously presented): The heat sink system as recited in claim 16, wherein a pair of reinforcing flanges extends inwardly from opposite lateral edges of a horizontal wall of each of the casings, and at least one screw hole is defined in each of the reinforcing flanges for securing the heat sink system to the fan.

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Claim 20 (previously presented): The heat sink system as recited in claim 1, wherein each of the fin is made of a single metal plate.

Claim 21 (new): A heat sink assembly comprising:

a frame;

a plurality of fins spacedly received in the frame, each of the fins defining a through hole; and

a duct inserted through the through hole of each of the fins;

wherein each of the fins forms a connecting tab extending around a periphery of the through hole, the connecting tab abuts the duct, a slot is defined in the connecting tab of each of the fins and receives an end of the connecting tab of an adjacent one of the fins.

Claim 22 (new): The heat sink assembly as recited in claim 21, wherein each connecting tab comprises a tapered tab inserting into the slot of an adjacent fin, and a locating tab abutting the duct.